TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-01-10-01** **Date: 09-02-2017**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency		Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-17
Sample ID No	:	2017-01-10-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-01-2017 to 08-02-2017

AE Ward No 6
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.05	–
2	Finess by Air permeablity method (m^2/kg, Min)	288.5	225m^2/kg, Min
3	Density (gm/cc)	3.31	–
4	Standard Consistency (%)	27.5	Not specified
5	Initial Setting time	240 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-01-10-01** **Date: 09-02-2017**

Sample ID No : **2017-01-10-01/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	320 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5 N/mm^2	Not less than 27 N/mm^2
	7 Days	39.5 N/mm^2	Not less than 37 N/mm^2
	28 Days	56.0 N/mm^2	Not less than 53 N/mm^2

Note:

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Harshitha

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Authorized Signatory
Quality Manager

Page 2/2
****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-02-01** **Date: 10-02-2017**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-02-17
Sample ID No	:	2017-02-02-01-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-02-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	210	210	4.2	95.8	95-100
3	20 mm	2866	3076	61.52	38.5	30-70
4	10 mm	1054	4130	82.6	17.4	10-35
5	4.75 mm	808	4938	98.76	1.2	0-5
6	Pan	62	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-02-01** **Date: 10-02-2017**

Sample ID No : 2017-02-02-01-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**13.5**	_
2	Elongation Index(%)	**12.1**	_
3	Specific Gravity	**2.65**	_
4	Bulk Density(Loose) (Kg/l)	**1.54**	_
5	Bulk Density(Compacted) (Kg/l)	**1.6**	_
6	Water Absorption(%)	**0.2**	_

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-02-01** **Date: 10-02-2017**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-17
Sample ID No	:	2017-02-02-01-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-02-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	196	196	3.92	96.1	95-100
3	10 mm	3166	3362	67.24	32.8	25-55
4	4.75 mm	1544	4906	98.12	1.9	0-5
5	Pan	94	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-02-01** **Date: 10-02-2017**

Sample ID No : 2017-02-02-01-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**12.2**	_
2	Elongation Index(%)	**14.7**	_
3	Specific Gravity	**2.62**	_
4	Bulk Density(Loose) (Kg/l)	**1.56**	_
5	Bulk Density(Compacted) (Kg/l)	**1.64**	_
6	Water Absorption(%)	**0.25**	_
7	Ten percent fine value(KN)	**210.5**	_
8	Aggregate crushing Value(%)	**22.1**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	**20.5**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-02-02-01** **Date: 10-02-2017**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-17
Sample ID No	:	2017-02-02-01-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorvation
Date of test	:	02-02-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	196	196	3.92	96.1	95-100
3	10 mm	3166	3362	67.24	32.8	25-55
4	4.75 mm	1544	4906	98.12	1.9	0-5
5	Pan	94	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-02-02-01** **Date: 10-02-2017**

Sample ID No : 2017-02-02-01-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	12.2	_
2	Elongation Index(%)	14.7	_
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.56	_
5	Bulk Density(Compacted) (Kg/l)	1.64	_
6	Water Absorption(%)	0.25	_
7	Ten percent fine value(KN)	210.5	_
8	Aggregate crushing Value(%)	22.1	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	20.5	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-02-22-02** **Date: 25-02-17**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-17
Sample ID No	:	2017-02-22-02/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	18/02/2017	25/02/2017	149.22 X 150.54 X 149.22	22464	8.165	388.6	17.3	17.2
2	Drain Concrete	M20	18/02/2017	25/02/2017	150.65 X 150.34 X 151.32	22567	8.152	401.7	17.8	
3	Drain Concrete	M20	18/02/2017	25/02/2017	151.88 X 150.15 X 150.11	22568	8.154	372.4	16.5	

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-02-22-02** **Date: 18-03-17**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-17
Sample ID No	:	2017-02-22-02/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	18/02/2017	18/03/2017	151.43 X 150.41 X 150.87	22777	8.176	539.8	23.7	23.8
2	Drain Concrete	M20	18/02/2017	18/03/2017	151.66 X 150.26 X 150.42	22567	8.114	543.9	24.1	
3	Drain Concrete	M20	18/02/2017	18/03/2017	150.26 X 150.18 X 150.27	22568	8.154	532.6	23.6	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Prepared by
Harsitha

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-02-25-02** **Date: 28-02-17**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-02/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/02/2017	27/02/2017	148.98 X 151.67 X 150.55	22596	8.132	399.9	17.7	17.7
2	Drain Concrete	M20	20/02/2017	27/02/2017	149.91 X 150.11 X 150.22	22567	8.105	392.7	17.4	
3	Drain Concrete	M20	20/02/2017	27/02/2017	150.54 X 150.65 X 150.18	22568	8.172	408.5	18.1	

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AE ward No 6
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Prepared by
Harsitha

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-02-25-02** **Date: 21-03-17**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-17
Sample ID No	:	2017-02-25-02/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/02/2017	20/03/2017	151.21 X 150.11 X 150.34	22698	8.122	526.6	23.2	23.5
2	Drain Concrete	M20	20/02/2017	20/03/2017	150.26 X 150.32 X 150.11	22567	8.197	534.8	23.7	
3	Drain Concrete	M20	20/02/2017	20/03/2017	150.54 X 149.11 X 151.76	22568	8.123	530.3	23.5	

Note:
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Prepared by
Harsitha

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-02-02-01** **Date: 10-02-17**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-17
Sample ID No	:	2017-02-02-01-03
Sample Type	:	JSW, Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	07-02-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	10mm	0.614	539	645	20.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	10mm	Satisfactory	Satisfactory

Note:
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Samples will be disposed after 30 days from the date of issue of test certificate

AE ward No 6
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10.2.17

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Prepared By:
Harshitha

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-02-02-01** **Date: 10-02-17**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-17
Sample ID No	:	2017-02-02-01-04
Sample Type	:	JSW, Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	07-02-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	12mm	0.885	554	662	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	12mm	Satisfactory	Satisfactory

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AE Ward No 6

Prepared By:
Harshitha

ಸಹಾಯಕ ಅಭಿಯಂತರರು ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-02-02-01** **Date: 10-02-17**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-17
Sample ID No	:	2017-02-02-01-05
Sample Type	:	JSW, Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	07-02-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	16mm	1.541	570	688	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	16mm	Satisfactory	Satisfactory

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Page 1/1
End of Report

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-02-02-01** **Date: 10-02-17**
Customer	:	Assistant Executive Engineer, Byataranapura Sub Division, BBMP, Bangalore.
Address	:	Byataranapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R. Sridhar #987, old middle school road, Yelahanka, Bangalore-64.
Project Name	:	Improvements to Road and Drains at Cauvery Layout Dasarahalli in Ward No.06 Byatarayanapura Sub Division (2nd call)
Customer's Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-17
Sample ID No	:	2017-02-02-01-06
Sample Type	:	JSW, Fe500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	07-02-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	JSW	Fe500	20mm	2.452	588	692	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	JSW	Fe500	20mm	Satisfactory	Satisfactory

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Harshitha

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Authorized Signature
Quality Manager

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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-02-24-01**	**Date: 25-02-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Agency	:	Y.R.Sridhar #987, Old middle school road,Yelahanka, Bangalore-64	
Project Name	:	Improvement to Roads and Drains at Cauvery Layout Dasarahalli in Ward No.6 Byatarayanapura Sub Division (2nd Call)	
Customer Reference	:	BBMP/EE/BTP/WO/28/2016-17	
Source of Sample	:	Sample supplied by the Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	24-02-2017	
Sample ID No	:	2017-02-24-01-01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	24-02-2017	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	501
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A}$ X 100	4.78	4.79
4	Average percentage	%	4.79	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು

CIVIL PRO BANGALORE Sig. Date

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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signature
Quality Manager

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Lab ID : **CP-RW-2017-02-24-01** **Date: 25-02-2017**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 478

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	31	31	93.5	90-100
4.75	213	244	49.0	35-51
2.36	63	307	35.8	24-39
1.18	39	346	27.6	15-30
0.3	71	417	12.8	9-19
0.075	34	451	5.6	3-8
PAN	27	478	0.0	0

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	29	29	93.9	90-100
4.75	215	244	48.8	35-51
2.36	62	306	35.8	24-39
1.18	41	347	27.3	15-30
0.3	66	413	13.4	9-19
0.075	32	445	6.7	3-8
PAN	32	477	0.0	0

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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-02-25-01**	**Date: 26-02-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Agency	:	Y.R.Sridhar #987, Old middle school road,Yelahanka, Bangalore-64	
Project Name	:	Improvement to Roads and Drains at Cauvery Layout Dasarahalli in Ward No.6 Byatarayanapura Sub Division (2nd Call)	
Customer Reference	:	BBMP/EE/BTP/WO/28/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	25-02-2017	
Sample ID No	:	2017-02-25-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	25-01-2017	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	501
2	Weight of the sample After extraction	B	476	479
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.18	4.39
4	Average percentage	%	4.79	

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Prepared By:
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Quality Manager

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Lab ID : **CP-RW-2017-02-25-01** **Date: 26-02-2017**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 476

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	31	31	93.5	90-100
4.75	213	244	48.7	35-51
2.36	63	307	35.5	24-39
1.18	39	346	27.3	15-30
0.3	70	416	12.6	9-19
0.075	33	449	5.7	3-8
PAN	27	476	0.0	0

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 479

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	100.0	100
9.5	29	29	93.9	90-100
4.75	215	244	49.1	35-51
2.36	62	306	36.1	24-39
1.18	41	347	27.6	15-30
0.3	67	414	13.6	9-19
0.075	32	446	6.9	3-8
PAN	33	479	0.0	0

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Harshitha

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Quality Manager

AR ward No 6

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-02-15-01** **Date: 16-02-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R.Sridhar #987, Old middle school road,Yelahanka, Bangalore-64
Project Name	:	Improvement to Roads and Drains at Cauvery Layout Dasarahalli in Ward
Customer Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-2017
Sample ID No	:	2017-02-15-01-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	15-02-2017
Oven Dry Weight(gm)	:	11800

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	385	385	3.26	96.74	95-100
22.4	2259	2644	22.41	77.59	60-80
11.2	2196	4840	41.02	58.98	40-60
4.75	2285	7125	60.38	39.62	25-40
2.36	1655	8780	74.41	25.59	15-30
0.6	665	9445	80.04	19.96	8-22
0.075	2155	11600	98.31	1.69	0-8

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-02-13-01** **Date: 14-02-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R.Sridhar #987, Old middle school road,Yelahanka, Bangalore-64
Project Name	:	Improvement to Roads and Drains at Cauvery Layout Dasarahalli in Ward
Customer Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-02-2017
Sample ID No	:	2017-02-13-01-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	13-02-2017
Oven Dry Weight(gm)	:	11600

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.11 MORTH Specification
53	0	0	0	100	100
45	335	335	2.89	97.11	95-100
22.4	2259	2594	22.36	77.64	60-80
11.2	2171	4765	41.08	58.92	40-60
4.75	2260	7025	60.56	39.44	25-40
2.36	1605	8630	74.40	25.60	15-30
0.6	615	9245	79.70	20.30	8-22
0.075	2155	11400	98.28	1.72	0-8

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-02-13-01** **Date: 14-02-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	Y.R.Sridhar #987, Old middle school road,Yelahanka, Bangalore-64
Project Name	:	Improvement to Roads and Drains at Cauvery Layout Dasarahalli in Ward No.6 Byatarayanapura Sub Division (2nd Call)
Customer Reference	:	BBMP/EE/BTP/WO/28/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-02-2017
Sample ID No	:	2017-02-13-01-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	13-02-2017

Result:

Flakiness Index	14.8%
Elongation Index	12.1%
Combined Flakiness & Elongation Index	26.9%

Comments:

Maximum allowable Flakiness & Elongation Index is 30 %

Note:-
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Authorized Signatory
Quality Manager

Prepared By:
Harshitha

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-02-13-01**	**Date: 14-02-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Agency	:	Y.R.Sridhar #987, Old middle school road,Yelahanka, Bangalore-64	
Project Name	:	Improvement to Roads and Drains at Cauvery Layout Dasarahalli in Ward	
Customer Reference	:	BBMP/EE/BTP/WO/28/2016-17	
Source of Sample	:	Sample supplied by the Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	13-02-2017	
Sample ID No	:	2017-02-13-01-01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	13-02-2017	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	343	343
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	74.5	74.6
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	268.00	267.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impact value	(B/A)*100	21.72	21.75
6	Aggregate impact value (Mean of two tests)	Pecentage	21.73	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
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Samples will be disposed after 30 days from the date of issue of test certificate

AK ward no 6 ಸೀಟ್ ಕ್ಯಾಚಿಕ್ಕೆ 1 ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು ವ್ಯಾಪ್ತಿ ಬಿಬಿಎಂಪಿ ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

Prepared By:
Harshitha

ಸಹಾಯಕ ಅಭಿಯಂತರರು ಬಿಬಿಎಂಪಿ, ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro. Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report